

### Abstract

A centrifugal separator for cleaning of a gas from solid and/or liquid particles suspended therein, includes a stationary housing and a rotor arranged therein. The rotor at its one axial end has a central inlet for gas to be cleaned and delimits a central space communicating with the inlet. Around the central space a stack of conical separation discs is arranged in the rotor. These discs form between themselves several through flow passages which at their one ends communicate with the central space in the rotor and at their other ends communicate directly with a receiving chamber surrounding the rotor in the stationary housing. The rotor supports several turbine blades, which are arranged in a ring around the central inlet of the rotor, and at least one nozzle is adapted to direct a gaseous driving fluid towards the turbine blades for the rotor rotation.